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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,270	08/19/2003	Peter Zahner		4070
75	90 12/21/2004		EXAMINER	
Peter Zahner			MCCORMICK EWOLDT, SUSAN BETH	
Suite 203 27725 Old 41 R	.oad		ART UNIT	PAPER NUMBER
Bonita Springs, FL 34135			1654	

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	on No.	Applicant(s)	
Office Action Comment		10/643,2	70	ZAHNER, PETER	
	Office Action Summary	Examine	r	Art Unit	
			McCormick-Ewoldt	1654	
Period fo	The MAILING DATE of this commun or Reply	ication appears on th	e cover sheet with the d	correspondence address	
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3 period for reply is specified above, the maximum sta re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no e nunication. 0) days, a reply within the sta atutory period will apply and v will, by statute, cause the ap	vent, however, may a reply be tin tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).	
Status					
1)⊠	Responsive to communication(s) file	d on <u>30 November 2</u>	<u>2004</u> .		
2a)□	This action is FINAL .	2b)⊠ This action is	non-final.		
3)	Since this application is in condition	for allowance excep	t for formal matters, pro	osecution as to the merits is	
	closed in accordance with the practi	ce under <i>Ex parte</i> Q	uayle, 1935 C.D. 11, 4	53 O.G. 213.	
Dispositi	on of Claims				
4)⊠	Claim(s) 1-23 is/are pending in the a	pplication.			
	4a) Of the above claim(s) 16-23 is/ar	e withdrawn from co	nsideration.	والمعهدي	
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-15 is/are rejected.				
7)	Claim(s) is/are objected to.				
8)[Claim(s) are subject to restric	tion and/or election	requirement.		٠
Applicati	on Papers				
9)⊠	The specification is objected to by the	e Examiner.			
10)	The drawing(s) filed on is/are:	a) accepted or b) objected to by the □	Examiner.	
	Applicant may not request that any object	ction to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including	the correction is requi	red if the drawing(s) is ob	jected to. See 37 CFR 1.121(d)	
11)	The oath or declaration is objected to	by the Examiner. N	ote the attached Office	Action or form PTO-152.	
Priority ι	ınder 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim	for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).	*
	☐ All b)☐ Some * c)☐ None of:			, , , , ,	
	1. Certified copies of the priority	documents have be	en received.		
·	2. Certified copies of the priority	documents have be	en received in Applicati	ion No	
	3. Copies of the certified copies	of the priority docum	ents have been receive	ed in this National Stage	
	application from the Internatio	nal Bureau (PCT Ru	le 17.2(a)).		
* 5	See the attached detailed Office actio	n for a list of the cer	ified copies not receive	ed.	
Attachmen	· t(s)				
_	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (P		Paper No(s)/Mail Da	ate	
	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date	PTO/SB/08)	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)	

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DETAILED ACTION

Election Restriction

Applicant's election with traverse of Group I in the reply filed on November 30, 2004 is acknowledged. The traversal is on the ground(s) that the numerous methods of protecting the skin from UVA/UVB rays aren't as specific as the claimed invention. This is not found persuasive because there are specific ingredients in other compositions that contain the claimed composition.

The requirement is still deemed proper and is therefore made FINAL.

Claims Pending

Claims 1-15 will be examined on their merits and claims 16-23 have been withdrawn from consideration.

Specification

The disclosure is objected to because of the following informalities: the term "erithema" is misspelled on page 1, lines 11 and 24. There are several punctuation errors through out the specification. Appropriate correction is required.

Claim Objections

Claim 8 is objected to because of the following informalities: There is no period at the end of the claim. In claim 11, the term "erythema" is spelled differently as in the specification. Claims 13 (line 2) and 14 (lines 1 and 2) are objected to because they are grammatically incorrect with the term "is" and "as". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 7-8 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 (a) is unclear in it's meaning of "(Bio) Melanin extract" since melanin is already an extract as stated in the specification (page 2). Also melanin is known to be extracted from a biological source so the added term "Bio" is redundant.

Claims 1 and 10 are rendered vague and indefinite by the terms "synergistically" and "synergistic" because the instant specification does not adequately disclose amounts and/or proportions of the claimed ingredients

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necessary to provide such a synergistic effect- i.e., the metes and bounds of this term are not clearly delineated because the instant specification fails to adequately teach synergistic amounts/proportions thereof (please note that synergism is well known in the art to be an unpredictable phenomenon highly dependent upon specific amounts and/or proportions of active ingredients therein).

Claims 7 and 8 recites the limitation "extract" in line 2. There is insufficient antecedent basis for this limitation in the claim because claim 6 states a "component".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over de Rigal et al. (US 5,618,521) in view of McCook et al. (US 5,306,486) and Pawelek et al. (US. 5,618,519).

A sunscreen composition comprising a (Bio) Melanin extract, green tea and mineral pigments, is claimed.

de Rigal *et al.* expressly teach using a composition for suitably for screening UVA and/or UVB irradiation containing titanium dioxide and zinc oxide, which are metal oxide nanopigments at a concentration from 1-10% (column 3, lines 23-30, 55-60; column 4, lines 8-12 and claims 9, 16-17). In addition, de Rigal *et al.* disclose using green tea extract in the concentration between 0.1 to 2% by weight (column 2, lines 41-49; column 3, line 1 and claim 5). de Rigal *et al.* does not teach using Bio melanin in the composition.

McCook *et al.* disclose using green tea extract in a concentration ranging from 0.01 to 10% by weight and a sunscreen compound to inhibit UV absorption such as titanium dioxide or zinc oxide with the concentration ranging from 00.1 to 25% (column 2, lines 45-46, 60-61, 65-66; column 3, lines 1-2, 58-60 and claims 1-5).

Pawelek *et al.* disclose a composition that includes melanins to be used in a sunscreen (column 2, lines 35-37) and sources where melanin can be prepared (column 8, lines 39-41). In addition, Pawelek *et al.* teach that sunscreening agents can be added to the composition (column 7, lines 46-49).

Although McCook *et al.* and de Rigal *et al.* disclose using green tea extracts from 0.01 to 10% by weight and .1 to 2%, respectively, it was obvious to one skilled in the art to increase the amount of green tea extract hence, the greater amount of polyphenols (i.e. antioxidant) in the composition.

One of ordinary skill in the art would have been motivated to combine de Rigal et al. with McCook et al. and Pawelek et al. because de Rigal et al. with McCook et al., both taught using green tea extract and titanium dioxide or zinc oxide for a composition that can be used as a sunscreen and Pawelek et al. taught that melanin used in a sunscreen compositions was advantageous. It is known in the art that titanium dioxide and zinc oxide provides photo-protective activity as stated in de Rigal et al. (column 3, line 55-60) and the amount of constituents claimed

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would be obvious in the claimed composition. Polyphenols are known in the art as an antioxidant which are an intrinsic characteristic of green tea which Camellia oleifera and Camellia sinensis.

It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 220 F2d 454, 456, 105 USPQ 233; 235 (CCPA 1955). See MPEP § 2144.05 part II A. It would have been obvious to one of ordinary skill in the art at the time Applicants' invention was made to determine all operable and optimal concentrations f components because concentration is an art-recognized result-effective variable which would have been routinely determined and optimized in the pharmaceutical art.

It would clearly have been obvious to one of ordinary skill in the art at the time the claimed invention was made to use a composition made up of green tea extract, a UV ray blocking mineral pigment and melanin in an effective amount for a sunscreen composition, based upon the beneficial teaching provided by the cited references, as discussed above.

Summary

No claim is allowed.

Future Correspondence

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Susan B. McCormick-Ewoldt whose telephone number is (571) 272-0981. The Examiner can normally be reached Monday through Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Bruce Campell, can be reached on (571) 272-0974. The official fax number for the group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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